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**The Delphion Integrated View**Get Now: ☒ PDF | [More choices...](#)Tools: Add to Work File: [Create new Work](#)View: [INPADOC](#) | Jump to: [Top](#) ☒ Go to: [Derwent](#)[Email](#)**Title: JP06228186A2: 2'-DEOXY-@(3754/24)2'S)-ALKYLPYRIMIDINE NUCL DERIVATIVE****Derwent Title:** New 2'-deoxy-(2'S)-alkyl:pyrimidine nucleoside derivs. - are antiviral agents against e.g. herpes simplex. [[Derwent Record](#)]**Country:** JP Japan**Kind:** A**Inventor:** MATSUDA AKIRA;  
SHUTO SATOSHI;  
BABA MASANORI;  
SHIGETA SHIRO;  
SASAKI TAKUMA;**Assignee:** YAMASA SHOYU CO LTD  
[News, Profiles, Stocks and More about this company](#)**Published / Filed:** 1994-08-16 / 1993-01-29**Application Number:** JP1993000034495**IPC Code:** [C07H 19/06](#); [A61K 31/70](#);**Priority Number:** 1993-01-29 JP1993000034495**Abstract:** PURPOSE: To obtain the subject new derivative, composed of a 2'-deoxy-(2'S)- alkylpyrimidine nucleoside derivative, having excellent antiviral activity, good in absorbability, solubility and stability with hardly any side effects and useful as an antiviral agent, etc.



CONSTITUTION: The 2'-position of the saccharide part in a pyrimidine nucleoside derivative expressed by formula I (R1 is amino or OH; Z is protecting group) is alkylated with an alkylating agent (e.g. methylmagnesium bromide) to provide a compound expressed by formula II (R3 is lower alkyl). The hydroxyl group at the 2'-position of the saccharide part in the produced compound expressed by formula II is then acylated with an acylating agent (e.g. methyloxalyl chloride) and subsequently reduced with a reducing agent (e.g. tributyltin hydride) to afford a compound expressed by formula III. The basic part at the 5-position thereof is further halogenated with a halogenating agent (e.g. N-iodosuccinimide) and the protecting group of the saccharide part is then released. The 5'-position of the saccharide part, as necessary, is subsequently phosphorylated to afford the objective nucleoside derivative expressed by formula IV (R2 is halogen; R4 is H or phosphoric acid residue).

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Family: None

Forward References: **Go to Result Set: Forward references (2)**

PDF	Patent	Pub.Date	Inventor	Assignee	Title
	<a href="#">US6914054</a>	2005-07-05	Sommadossi; Jean-Pierre	Idenix Pharmaceuticals, Inc.	Methods and co for treating hep
	<a href="#">US5627053</a>	1997-05-06	Usman; Nassim	Ribozyme Pharmaceuticals, Inc.	2'deoxy-2'-alkyl containing nucle

Other Abstract Info:

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